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NVIDIA NCP-AIN Exam

NVIDIA-Certified Professional AI Networking

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Spectrum-X Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Network Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.
Topic 2	<ul style="list-style-type: none">• AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.
Topic 3	<ul style="list-style-type: none">• InfiniBand Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance of NVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.

NVIDIA-Certified Professional AI Networking Sample Questions (Q32-Q37):

NEW QUESTION # 32

You are configuring the Unified Fabric Manager (UFM) for an InfiniBand fabric in a multi-tenant environment. You need to implement a solution that can detect potential security threats.

Which UFM feature uses analytics to detect security threats and predict network failures in InfiniBand data centers?

- A. Telemetry platform
- B. Enterprise platform
- C. Host Agent
- **D. Cyber-AI platform**

Answer: D

Explanation:

The UFM Cyber-AI platform is an advanced feature of NVIDIA's Unified Fabric Manager designed to enhance security and reliability in InfiniBand data centers. It leverages AI-powered analytics and machine learning techniques to detect security threats, operational anomalies, and predict potential network failures.

By analyzing real-time and historical telemetry data, UFM Cyber-AI can identify abnormal system behaviors, performance degradations, and usage profile changes. This proactive approach enables administrators to address issues before they escalate, ensuring the integrity and uptime of the data center.

Reference Extracts from NVIDIA Documentation:

* "The NVIDIA Unified Fabric Manager (UFM) Cyber-AI platform offers enhanced and real-time network telemetry, combined with AI-powered intelligence and advanced analytics. It enables IT managers to discover operational anomalies and even predict network failures."

* "UFM Cyber-AI uses machine learning (ML) techniques and AI models for anomaly detection and prediction to learn the lifecycle patterns of data center network components."

* "The NVIDIA UFM platforms revolutionize data center networking management by combining enhanced, real-time network telemetry with AI-powered cyber intelligence and analytics to support scale-out InfiniBand data centers. ... The UFM Cyber-AI platform takes fabric management to the next level by adding an analytics layer powered by artificial intelligence. It enables data center operators to proactively monitor and manage the InfiniBand fabric, predicting and preventing potential failures, optimizing performance, and enhancing security. By analyzing telemetry data and historical patterns, UFM Cyber-AI can detect anomalies that may indicate security threats or operational issues, providing actionable insights to prevent downtime."

NEW QUESTION # 33

When utilizing the `ib_write_bw` tool for performance testing, what does the `-S` flag define?

- A. The maximum rate of sent packages
- B. The burst size
- C. Which service level to use
- D. The number of QP's

Answer: C

Explanation:

From NVIDIA Performance Tuning Guide (ib_write_bw Tool Usage):

"-S <SL>: Specifies the Service Level (SL) to use for the InfiniBand traffic. SL is used for setting priority and mapping to virtual lanes (VLs) on the IB fabric." This flag is useful when testing QoS-aware setups or validating SL/VL mappings.

NEW QUESTION # 34

You need to configure a bond in Cumulus Linux. Which command should you use?

- A. nv set bondbond1 interface member swp1-4
- B. nv set interface bond1 bond member swp1-4
- C. nv set interface bond1 bond mlag enable
- D. nv set interface bond1 bond mode lacp

Answer: D

Explanation:

In Cumulus Linux, configuring a bond interface with Link Aggregation Control Protocol (LACP) involves setting the bond mode to 'lacp'. The correct command to achieve this is:

```
nv set interface bond1 bond mode lacp
```

This command sets the bonding mode of 'bond1' to LACP, enabling dynamic link aggregation for increased bandwidth and redundancy.

Reference Extracts from NVIDIA Documentation:

* "To reset the link aggregation mode for bond1 to the default value of 802.3ad, run the nv set interface bond1 bond mode lacp command."

NEW QUESTION # 35

You have recently implemented NVIDIA Spectrum-X in your data center to optimize AI workloads. You need to verify the performance improvements and create a baseline for future comparisons.

Which tool would be most appropriate for creating performance baseline results in this Spectrum-X environment?

- A. MLNX-OS
- B. Ansible
- C. CloudAI Benchmark
- D. NetQ

Answer: C

Explanation:

The CloudAI Benchmark is designed to evaluate and establish performance baselines in AI-optimized networking environments like NVIDIA Spectrum-X. It assesses various performance metrics, including throughput and latency, ensuring that the network meets the demands of AI workloads. This benchmarking is essential for validating the benefits of Spectrum-X and for ongoing performance monitoring.

Reference: NVIDIA Spectrum-X Validated Solution Stack

NEW QUESTION # 36

What is the purpose of WJH (What Just Happened)?

- A. Send notifications of failed login attempts to a pre-defined Slack channel.
- B. Provide contextual information regarding dropped packets in order to aid debugging.
- C. Collate operating system logs and diagnose system crashes.
- D. Identify potential cyberattacks or unusual traffic patterns across the cluster.

Answer: B

Explanation:

NVIDIA's What Just Happened (WJH) is a feature that provides real-time visibility into network problems by analyzing all packets passing through the switch and alerting on performance issues caused by packet drops, congestion, high latency, or misconfigurations. WJH retains the last packets that were dropped from the switch with complete packet headers and the actual drop reason. This enhances the ability to debug network problems, identify affected flows, and decrease time-to-repair.

NEW QUESTION # 37

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